



**HEWLETT-PACKARD COMPANY
LOGIC SYSTEMS DIVISION**

**HP 64000
Logic Development
System**

SYSTEM RELEASE BULLETIN

**HEWLETT
PACKARD**

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STARS II SRB (STARS B)

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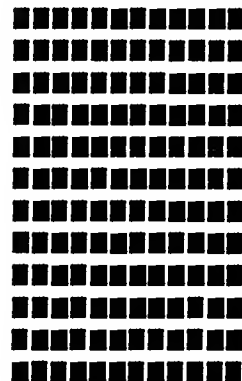
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P R E F A C E

This Software Release Bulletin documents all fixes and enhancements that are incorporated in the new release identified on the cover page. The SRB is provided as a benefit of Hewlett-Packard's Account Management Support, Response Center Support, and Software Materials Subscription.

Of the five sections contained in the SRB (not including the PREFACE), only the last section which contains the detailed reports has page numbers. These are referenced by the product, report number and keyword indexes in order to direct the user to a particular area or to an individual detailed report. The five sections are described below.

SOFTWARE RELEASE CONTENTS

This section lists the product names, numbers and update/fix levels of all products contained in this release. Products that have changed, or are new are denoted with an asterisk preceding the product name.

PRODUCT INDEX

Each unique product name/number has an entry listing the page number where the detailed report for that product begins.

REPORT NUMBER INDEX

This index is a sequential list of the individual report numbers with the corresponding page number where the report can be found.

KEYWORD INDEX

This index is sorted by product name, keyword, product number (including the update/fix level) and by report number in that order. In addition to the sort items, each entry has a brief description (one line) and the page number where the detailed report can be found. Note that a given report can be listed more than once in this section if it has more than one keyword assigned to it.

DETAILED REPORTS

Each report contains all the available information relevant to the problem being corrected or the enhancement being implemented.

Software release contents

Product name	Product number	uu.ff
*64000-UX OP-ENV	300 64801S004	01.60
*68000 DQ EMUL	300 64243S004	01.00
*68HC11 EMUL	64265	01.00
*70016 EMUL (JLO)	300 64294S004	01.00
*70108 EMUL (JLO)	300 64295S004	01.00
*8036 EMUL	300 64222S004	01.00
*8036/8 ASSEMB	64853	02.03
*8036/8 ASSEMB	300 64853S004	02.30
*8036/8 ASSEMB	500 64853S001	02.40
*8036/8 ASSEMB	VAX 64853S003	02.50
*8038 EMULATION	300 64226S004	01.00
*8096 ASSEMB	64860	01.04
*8096 ASSEMB	300 64860S004	01.30
*8096 ASSEMB	500 64860S001	01.40
*8096 ASSEMB	VAX 64860S003	01.50
*PROM PROGRAMMER	64501	01.10
*PROM PROGRAMMER	300 64501S004	01.03
*STATE 80386	64659	01.00
*TIMING ANALYZER	300 64610S004	02.00
*USER DEF EMUL	300 64274S004	01.00

Product index

Product name		Product number	Page
8086/8 ASSEMB		64853	1
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8096 ASSEMB	500	64860S001	6
8096 ASSEMB	VAX	64860S003	7

Report number index

Report #	page	Report #	page	Report #	page	Report #	page
5000163055	1	D200054189	6	D200055301	6	D200075358	3
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5000179887	4	D200054205	5	D200055327	5		

Keyword index

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Keyword	Product number	uu.ff Description	Report #	page
CODE GENERATOR	64853	02.02 Conditional jumps > +/-127 (8-bit signed) away do not generate an LR err	5000163055	1

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Keyword	Product number	uu.ff Description	Report #	page
*****none*****	64853S003	02.40 Unable to link files which have .R's in other dirs. than where assembled	D200075358	3

- -0

Keyword	Product number	uu.ff Description	Report #	page
*****none*****	64860	01.03 SHRL,SHLL,SHRAL label -doesn't resolve the address of label in absolute	5000172585	4
	64860	01.03 EXT does not insert RAM addr for external symbol operands	5000179887	4

- -0

Keyword	Product number	uu.ff Description	Report #	page
*****none*****	64860S004	01.00 SKIP listing control pseudo does not work.	D200054205	5
	64860S004	01.00 DCW and DCB will not function with negative operands.	D200055327	5

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Keyword	Product number	uu.ff Description	Report #	page
*****none*****	64860S001	01.10 SKIP listing control pseudo does not work.	D200054189	6
	64860S001	01.10 DCW and DCB will not function with negative operands.	D200055301	6

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Keyword	Product number	uu.ff Description	Report #	page
*****none*****	64860S003	01.20 SKIP listing control pseudo does not work.	D200054197	7
	64860S003	01.20 DCW and DCB will not function with negative operands.	D200055319	7
	64860S003	01.40 Unable to link files which have .R's in other dirs. than where assembled	D200076273	7

Number: 5000163055 Product: 8086/8 ASSEMB 64853 02.02

Keywords: CODE GENERATOR

One-line description:

Conditional jumps > +/-127 (8-bit signed) away do not generate an LR err

Problem:

The assembler no longer flags a "legal range" error when a forward conditional jump between 80H and FFH is made. The Intel Programmer's reference instructs that all conditional jump must be SHORT. This problem does not occur with backward referencing.

Examples:

```
"80186"
  JMP SHORT LABEL    (should be LR error)
  DBS 81H
  LABEL

"8088"
  NULL EQU 0
  ORG 0
  START MOV AL, NULL
  ADD AX, #01
  JO STOP            (should generate a LR error)
  JMP START
  ORG 264
  STOP NOP
  END

  FROM1 JZ LAB1      (should generate a LR error)
  DBS 200
  LAB1 HLT

"8086"
  JZ FRED
  DBS 81H            (should generate a LR error)
  FRED NOP
  END

"8088"
  STC
  JC HERE            (should flag a LR error)
  DBS 128
  HERE NOP
  JMP HERE
  END

"8086"
  TEST:
  OR AX, AX
  JE TEST_01         (should flag a LR error)
  DBS 200
  TEST_01:
  RET
```

This problem only occurs on the 64100 and the VAX.

Temporary solution:

There is no known temporary solution.

Signed off 06/22/87 in release Z02.03

SRB detail reports as of 06/22/87

Page: 3

Number: D200075358 Product: 8086/8 ASSEMB VAX 64853S003 02.40

One-line description:

Unable to link files which have .R's in other dirs. than where assembled

Problem:

If files are assembled in one directory on the VAX, their
.R files must remain in that directory. Moving the .R files
to another directory will cause the link to fail.

Temporary solution:

The relocatable files must remain in the directory that they
were assembled in.

Signed off 06/22/87 in release 302.50

SRB detail reports as of 06/22/87

Page: 4

Number: 5000172585 Product: 8096 ASSEMB 64860 01.03

One-line description:

SHRL,SHLL,SHRAL label -doesn't resolve the address of label in absolute

Signed off 06/22/87 in release 001.04

Number: 5000179887 Product: 8096 ASSEMB 64860 01.03

One-line description:

EXT does not insert RAM addr for external symbol operands

Signed off 06/22/87 in release 001.04

SRB detail reports as of 06/22/87

Page: 5

Number: D200054205 Product: 8096 ASSEMB 300 64860S004 01.00

One-line description:

SKIP listing control pseudo does not work.

Problem:

The SKIP listing control instruction does not work. It generates assembler errors when used in the source program.

Temporary solution:

Insert formfeeds (control L) in the listing file before printing it.

Signed off 06/22/87 in release 401.30

Number: D200055327 Product: 8096 ASSEMB 300 64860S004 01.00

One-line description:

DCW and DCB will not function with negative operands.

Problem:

An assembler error is generated if the operand of a DCB or DCW instruction is a negative number. According to the manual, negative values in the legal range are valid operands.

"8096"

LABEL1 DCB -10
^IC - Illegal constant, illegal character found
in constant

Temporary solution:

No known temporary solution.

Signed off 06/22/87 in release 401.30

SRB detail reports as of 06/22/87

Page: 6

Number: D200054189 Product: 8096 ASSEMB 500 64860S001 01.10

One-line description:

SKIP listing control pseudo does not work.

Problem:

The SKIP listing control instruction does not work. It generates assembler errors when used in the source program.

Temporary solution:

Insert formfeeds (control L) in the listing file before printing it.

Signed off 06/22/87 in release 101.40

Number: D200055301 Product: 8096 ASSEMB 500 64860S001 01.10

One-line description:

DCW and DCB will not function with negative operands.

Problem:

An assembler error is generated if the operand of a DCB or DCW instruction is a negative number. According to the manual, negative values in the legal range are valid operands.

"8096"

LABEL1 DCB -10
^IC - Illegal constant, illegal character found
in constant

Temporary solution:

No known temporary solution.

Signed off 06/22/87 in release 101.40

Number: D200054197 Product: 8096 ASSEMB VAX 64860S003 01.20

One-line description:

SKIP listing control pseudo does not work.

Problem:

The SKIP listing control instruction does not work. It generates assembler errors when used in the source program.

Temporary solution:

Insert formfeeds (control L) in the listing file before printing it.

Signed off 06/22/87 in release 301.50

Number: D200055319 Product: 8096 ASSEMB VAX 64860S003 01.20

One-line description:

DCW and DCB will not function with negative operands.

Problem:

An assembler error is generated if the operand of a DCB or DCW instruction is a negative number. According to the manual, negative values in the legal range are valid operands.

"8096"

LABEL1 DCB -10
^IC - Illegal constant, illegal character found
in constant

Temporary solution:

No known temporary solution.

Signed off 06/22/87 in release 301.50

Number: D200076273 Product: 8096 ASSEMB VAX 64860S003 01.40

One-line description:

Unable to link files which have .R's in other dirs. than where assembled

Problem:

If files are assembled in one directory on the VAX, their .R files must remain in that directory. Moving the .R files to another directory will cause the link to fail.

Temporary solution:

The relocatable files must remain in the directory that they were assembled in.

Signed off 06/22/87 in release 301.50



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